Name: Shivraj Jitendra Bhosale Batch:B1

Roll No:CO3B06

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**ASSIGNMENT:-2(B)**

**AIM:** Design atleast 10 queries for suitable database application using SQL,DML statements insert,select,update,delete with operators,functions and set operators.

(base) sspm@sspm:~$ sudo su[sudo] password for sspm:root@sspm:/home/sspm# service start from mysqlid startstart: unrecognized serviceroot@sspm:/home/sspm# mysql -u root -pEnter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 10

Server version: 8.0.39-0ubuntu0.20.04.1 (Ubuntu)Copyright (c) 2000, 2024, Oracle and/or its affiliates.

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database B1;Query OK, 1 row affected (0.17 sec)

mysql> use B1;Database changed **Create:** mysql> create table employee(emp\_id int(10),emp\_name varchar(20),salary int(10));Query OK, 0 rows affected, 2 warnings (0.74 sec)

**Insert:** mysql> insert into employee values(1,'Rahul',50000);Query OK, 1 row affected (0.10 sec)

mysql> insert into employee values(2,'Sanika',45000);Query OK, 1 row affected (0.09 sec)

mysql> insert into employee values(3,'Sharhak',55000);Query OK, 1 row affected (0.11 sec)

mysql> insert into employee values(4,'Riya',48000);

Query OK, 1 row affected (0.08 sec)

mysql> select \* from employee;

+--------+----------+--------+

| emp\_id | emp\_name | salary |

+--------+----------+--------+

| 1 | Rahul | 50000 |

| 2 | Sanika | 45000 |

| 3 | Sharhak | 55000 |

| 4 | Riya | 48000 |

+--------+----------+--------+

4 rows in set (0.00 sec)

**Alter:** mysql> alter table employee add job varchar(10);

Query OK, 0 rows affected (0.32 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from employee;+--------+----------+--------+------+

| emp\_id | emp\_name | salary | job |

+--------+----------+--------+------+

| 1 | Rahul | 50000 | NULL |

| 2 | Sanika | 45000 | NULL |

| 3 | Sharhak | 55000 | NULL |

| 4 | Riya | 48000 | NULL |

+--------+----------+--------+------+

4 rows in set (0.00 sec)

**Update:** mysql> update employee set job='manager' where emp\_id=3;

Query OK, 1 row affected (0.09 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from employee;

+--------+----------+--------+---------+

| emp\_id | emp\_name | salary | job |

+--------+----------+--------+---------+

| 1 | Rahul | 50000 | NULL |

| 2 | Sanika | 45000 | NULL |

| 3 | Sharhak | 55000 | manager |

| 4 | Riya | 48000 | NULL |

+--------+----------+--------+---------+

4 rows in set (0.00 sec)

mysql> update employee set job='cleark' where emp\_id=1;

Query OK, 1 row affected (0.10 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update employee set job='PA' where emp\_id=4;

Query OK, 1 row affected (0.08 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update employee set job='peon' where emp\_id=2;

Query OK, 1 row affected (0.09 sec)Rows matched: 1 Changed: 1 Warnings: 0mysql> select \* from employee;

+--------+----------+--------+---------+

| emp\_id | emp\_name | salary | job |

+--------+----------+--------+---------+

| 1 | Rahul | 50000 | cleark |

| 2 | Sanika | 45000 | peon |

| 3 | Sharhak | 55000 | manager |

| 4 | Riya | 48000 | PA |

+--------+----------+--------+---------+

4 rows in set (0.00 sec) **Where Clause:**

mysql> select \* from employee where salary<50000;

+--------+----------+--------+------+

| emp\_id | emp\_name | salary | job |

+--------+----------+--------+------+

| 2 | Sanika | 45000 | peon |

| 4 | Riya | 48000 | PA |

+--------+----------+--------+------+2 rows in set (0.00 sec)

mysql> select \* from employee where salary in(45000,55000);

+--------+----------+--------+---------+

| emp\_id | emp\_name | salary | job |

+--------+----------+--------+---------+

| 2 | Sanika | 45000 | peon |

| 3 | Sharhak | 55000 | manager |

+--------+----------+--------+---------+2 rows in set (0.00 sec) **Distinct Clause:** mysql> select distinct(salary) from employee;

+--------+

| salary |

+--------+

| 50000 |

| 45000 |

| 55000 |

| 48000 |

+--------+

4 rows in set (0.00 sec)mysql> select \* from employee order by salary;

+--------+----------+--------+---------+

| emp\_id | emp\_name | salary | job |

+--------+----------+--------+---------+

| 2 | Sanika | 45000 | peon |

| 4 | Riya | 48000 | PA |

| 1 | Rahul | 50000 | cleark |

| 3 | Sharhak | 55000 | manager |

+--------+----------+--------+---------+

4 rows in set (0.00 sec)

**Delete Query:**

mysql> delete from employee where salary=45000;

Query OK, 1 row affected (0.08 sec)

mysql> select \* from employee;

+--------+----------+--------+---------+

| emp\_id | emp\_name | salary | job |

+--------+----------+--------+---------+

| 1 | Rahul | 50000 | cleark |

| 3 | Sharhak | 55000 | manager |

| 4 | Riya | 48000 | PA |

+--------+----------+--------+---------+

3 rows in set (0.00 sec)

**In Between:** mysql> select \* from employee where salary between 30000 and 60000;

+--------+----------+--------+---------+

| emp\_id | emp\_name | salary | job |

+--------+----------+--------+---------+

| 1 | Rahul | 50000 | cleark |

| 3 | Sharhak | 55000 | manager |

| 4 | Riya | 48000 | PA |

+--------+----------+--------+---------+

3 rows in set (0.00 sec)

**Not Between:** mysql> select \* from employee where salary not between 450000 and 70000;

+--------+----------+--------+---------+

| emp\_id | emp\_name | salary | job |

+--------+----------+--------+---------+

| 1 | Rahul | 50000 | cleark |

| 3 | Sharhak | 55000 | manager |

| 4 | Riya | 48000 | PA |

+--------+----------+--------+---------+

3 rows in set (0.00 sec)

**Maximum value:**

mysql> select \* from employee where salary=(select min(salary)from employee);

+--------+----------+--------+------+

| emp\_id | emp\_name | salary | job |

+--------+----------+--------+------+

| 4 | Riya | 48000 | PA |

+--------+----------+--------+------+

1 row in set (0.01 sec)

**Sum:**

mysql> select sum(salary) from employee;

+-------------+

| sum(salary) |

+-------------+

| 153000 |

+-------------+

1 row in set (0.00 sec)

**Count Query:**

mysql> select count(salary) from employee;

+---------------+

| count(salary) |

+---------------+

| 3 |

+---------------+

1 row in set (0.00 sec)

**Union:** mysql> select emp\_id from employee;

+--------+

| emp\_id |

+--------+

| 1 |

| 3 |

| 4 |

+--------+

3 rows in set (0.00 sec)

mysql> select emp\_name from employee;

+----------+

| emp\_name |

+----------+

| Rahul |

| Sharhak || Riya |

+----------+

3 rows in set (0.00 sec)